Homeland Defense

ARDEC – Picatinny, New Jersey 07806-5000

US Army Research, Development & Engineering Command

Homeland Defense (HLD) Control Center Test Bed

Picatinny Arsenal's *Homeland Defense (HLD) Control Center Test Bed* is intended primarily for research, development, engineering, integration, and prototype testing of HLD applications in support of military operations involving multi-tiered Incident Command Analysis & Response (ICAR). Initial application will be for deployment to Army Chemical Stockpile Storage Facilities in conjunction with the Soldier and Biological Chemical Command's (SBCCOM) Homeland Defense Division. SBCCOM will utilize the Test Bed's Security and Emergency Response Information System (SERIS™). SERIS™ will support information, sensor, and video data fusion at each local chemical stockpile site, Incident Command Analysis & Response within each local EOC, and Incident Command Analysis & Response at the National EOC. This initial deployment will be followed by integration with SBCCOM's Automated Decision-Aid System for Hazardous Incidents (ADASHI) for chemical and biological effects analysis. Additional deployment will be Picatinny Arsenal and West Point with integration into Picatinny and West Point Security Force and Emergency Operations Centers (EOC). Potential applications also include integration into Coast Guard operations and Nuclear, Biological, and Chemical reconnaissance vehicles.

The *HLD Control Center Test Bed* is also intended for research, development, engineering, integration, and prototype testing of Homeland Security (HLS) applications in support of local, county, state, and federal agencies. The test bed is a dual use technology transition of ARDEC's Combat Decision Aid System (CDAS) for multi-tiered applications in Homeland Security through the Security and Emergency Response Information System (SERIS™). It will leverage close working relationships and current HLD/HLS projects with Morris County, NJ. Along with ADASHI, the Control Center Test Bed will integrate SERIS™ with a variety of other related HLD / HLS tools and applications including the National Emergency Management Information System (NEMIS), HAZards US (HAZUS), and "desk-top"

simulation exercises conducted by the Federal Emergency Management Agency (FEMA). This facility will enable technology to be demonstrated in a broader, integrated HLS environment, to include Health Trend Monitoring Algorithms, Evacuation Route Determination, First Responder Choices, and Chemical/ Biological Analysis Tools.

Picatinny's *HLD Control Center Test Bed* incorporates capabilities at all four HLS Tier Levels: Tier-1 (Local-Municipalities); Tier-2 (County- *e.g.* Morris County); Tier-3 (State- *e.g.* NJ); and Tier-4 (National/Federal- *e.g.* FEMA). The facility will provide the ability to network all tiers and HLS centers, Test Beds, and EOC's. It will incorporate a state-of-the-art secure system and will also act as a multi-functional fully operational (24/7) EOC for Morris County and NJ State-wide disaster and anti-terrorist experiments. This facility can leverage HLD capabilities for potential Homeland Security applications in the areas of: detection and response to potential chemical and biological terrorism; early warning for disease control; nuclear plant perimeter defense; urban and highway situational awareness; airport, transit and other transportation systems security; and emergency response scenarios, decision aids, availability, route planning, safety zones, and logistics. It will provide the technology, tools, resources, infrastructure, and environment for collaborative efforts with multiple townships, county, state, and federal agencies.

For more information, contact the Center for Homeland Defense Technologies and Security Readiness via mail to: Commander, U.S. Army ARDEC, ATTN: AMSRD-AAR-AEF, Building 95, Picatinny Arsenal, NJ 07806-5000; via telephone at (973) 724-7959; or via e-mail to: pica-hld@pica.army.mil.
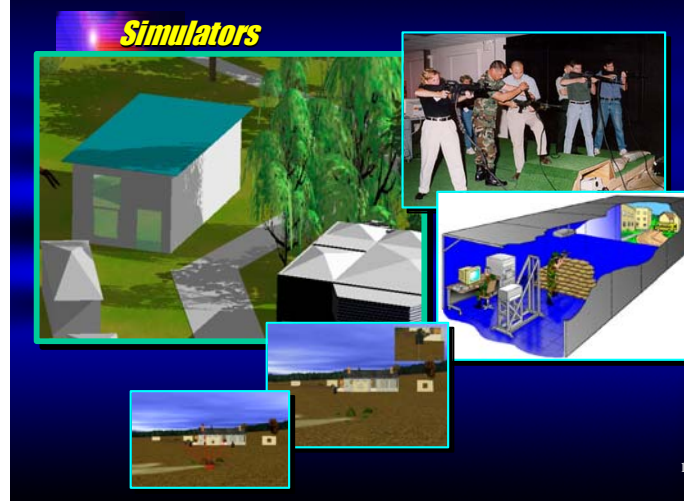
Technology Transfer

Army Technology Transfer to Homeland Defense/Homeland Security

Sensors

Simulators

Robot Development and Training

Non-Lethal Capability Set (NLCS)

- *Versatile Package of COTS, GSA & NDI Items As Well As New & Innovative Technologies*
- *CINC Requested & DA Directed Program to Procure & Field 10 Sets in FY00 & 01*
  - *Urgently Fielded First Set to Kosovo in April 00 & to Bosnia in June 01, 2 Sets Urgently Fielded to FORSCOM*

DESCRIPTION

50+ types of items, 5 categories:
1 - Individual Protective Equip.
2 - Individual Enhancement
3 - Mission Enhancement
4 - Munition
5 - Training Devices

Information Assurance